

466 777

8/9/85 #4

EPA CONTRACT NO. 68-01-6939 (REM II)
WORK ASSIGNMENT NO. 61-5LJ7.0

INVITATION FOR BIDS FOR
AERIAL PHOTOGRAPHY AND MAPPING

FOR

AMERICAN CHEMICAL SERVICE, INC.
GRIFFITH, INDIANA

DOCUMENT NO. 160-WP1-SP-AWDZ-1
SOLICITATION NO. IFB-AS-160-01

August 9, 1985

CONTENTS

Information for Bidders

Statement of Work Specifications

Attachment A - Bid Sheet

Attachment B - Map of Area

Attachment C - Site Map

Attachment D - Sample Contract

Attachment E - Site Personnel Protection & Safety Evaluation Form

INFORMATION FOR BIDDERS

1. Bidders have the responsibility to read and become completely familiar with the scope of services to be performed for the project described in the IFB. Additionally, bidders are responsible for being familiar with the project area. Failure to become familiar with the IFB and the project area will be at the bidders risk.
2. This project requires a rapid turn-around of the final product. Firms which cannot meet the established 30-day time frame from notice-to-proceed through project completion should not bid on the project.
3. The project is to be completed under a firm fixed price contract. The firm fixed price shall include all costs to be incurred in completing the services described including, but not limited to, the following: equipment, materials, supplies, direct labor, overhead, communications, miscellaneous services and profit or fee.
4. After estimating the entire cost to complete the project, the bid sheet (Attachment A) should be completed, signed by an authorized company official, and sent to the following address to be received no later than August 23, 1985.

REM II

Camp Dresser & McKee Inc.
National Program Management Office (NPMO)
7630 Little River Turnpike, Suite 500
Annandale, Virginia 22003

Attention: Mr. Daniel L. Hutton, Subcontracts Manager

The complete bid sheet should be sent in a sealed envelope marked on the outside "Response to Solicitation No. IFB-AS-160-01". The sealed envelope should be accompanied by a cover letter outside of the envelope for purposes of marking date and time received. Bids will be opened at 10:00 am on the day following the date bids are due.

5. The bidder shall submit along with the attached bid sheet (Attachment A) a list of references with whom he/she has conducted similar recent work. The list shall contain the name, address and phone number of at least five references. The bidder shall also submit a statement of qualifications.
6. The sample contract (Attachment D) will be the contract used for this project. The Statement of Work Specifications of this IFB will become Attachment A of this contract.

American Chemical Service, Inc. Site
Invitation for Bids For Aerial
Photography and Mapping Services

Page No: 2

7. Access to the American Chemical Service, Inc. site for the purpose of ground control survey or any other purpose will not be allowed without prior written permission. A drawing has been provided (Attachment C) for the purpose of describing the American Chemical Service, Inc. property boundary (dashed line). The subcontractor shall be solely and completely responsible for any and all actions which may result from entry onto the property without securing prior written permission from CDM. Permission for entry onto any property other than the American Chemical Service, Inc. is the responsibility of the Subcontractor.
8. The successful bidder will enter into a contract (Attachment D) with Camp, Dresser and McKee, Inc., the prime contractor for the REM II project (referred to as the "Contractor" throughout the IFB). Execution of the work will be supervised by a member of a REM II team firm. REM II team firms include: Camp Dresser and McKee, Inc., Roy F. Weston, Inc., Woodward Clyde Consultants, C.C. Johnson and Associates, ICF, and Clement Associates. The site manager is a member of a REM II team firm responsible for day to day supervision of the work at a specific site. The site manager for the American Chemical Service, Inc. site is James M. Burton, P.E. of Roy F. Weston, Inc., Bannockburn, Illinois.

PROJECT DESCRIPTION

The American Chemical Service, Inc. site is located approximately one half mile southeast of the town of Griffith, Indiana in the northeast $\frac{1}{4}$ of the southeast $\frac{1}{4}$ of Section 2, Township 35 North, Range 9 West, Lake County, Indiana (Highland, Indiana U.S.G.S. Map)(see Figure 1). The American Chemical Service, Inc. site property boundary (dashed boundary line) is shown on Attachment C. The boundary of the area to be photographed (solid line) is shown on Attachments B&C. The area to be mapped is also shown on Attachment B&C (solid boundary line). However, only the shaded area requires contour intervals. The purpose of the requested services is to produce a color site photograph and site maps that will subsequently be used in the Remedial Investigation and Feasibility Study for the site.

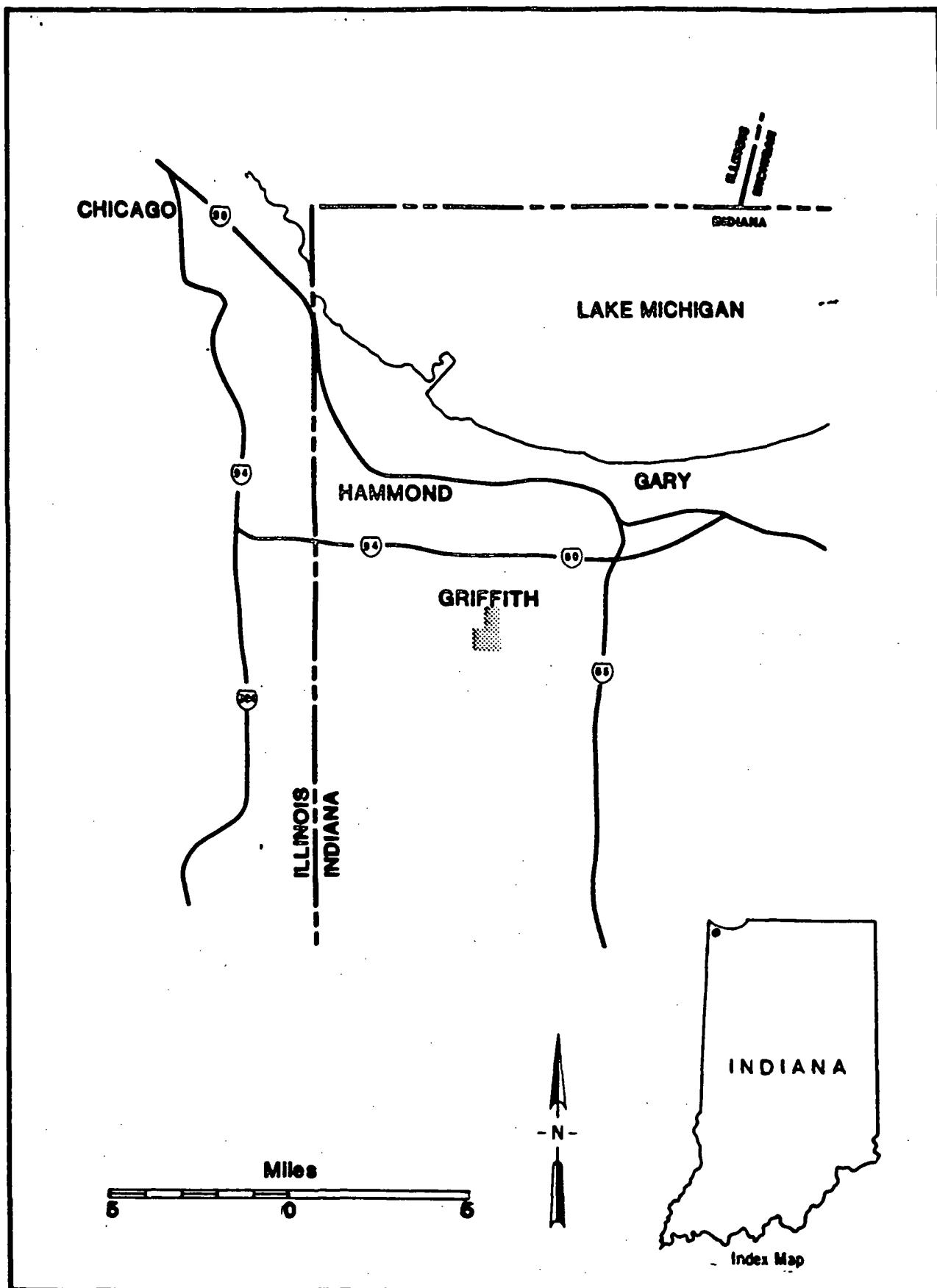


Figure 1 Location Map American Chemical Service Site

American Chemical Service, Inc. Site
Invitation for Bids For Aerial
Photography and Mapping Services

Page No: 4

STATEMENT OF WORK SPECIFICATIONS

A. GENERAL REQUIREMENTS

1. AIRCRAFT AND CAMERAS

- a. All aircraft and crews shall comply with Federal Aviation Administration and Civil Aeronautics Board regulations.
- b. A certified U.S. Bureau of Standards precision aerial mapping camera equipped with a between-the-elements-shutter shall be used. The camera shall be equipped with a vacuum device for holding the film flat at the instant of exposure. The platten shall not depart from the true plane by more + five thousandth of an inch per inch. The camera shall produce at least four (4) fiducial marks -- one in each corner for accurately locating the principal point of the photograph. The photography negative shall be taken so as to prevent appreciable image movement at the instant of exposure.

2. AERIAL FILM

- a. Negatives shall be clear and sharp in detail and of uniform density. They shall be free from clouds and cloud shadows, smoke, haze, light streaks, snow, static marks, shadows, tears, scratches, and other blemishes which would interfere with their intended purpose.

3. PHOTOGRAPHY,

- a. Photography shall be flown during the time of day when the sun angle will have minimum effect. Photographs shall be taken when rivers, streams and lakes are within their normal boundaries.
- b. The photography shall not be taken when the ground is obscured by haze, smoke, or dust and wind clouds or cloud shadows. These items shall not appear on more than five (5) percent of the area of any one photograph.

4. OVERLAP, CRAB, TILT AND ALTITUDE

- a. Overlap in line of flight shall be no less than 55% and no more than 65%.
- b. Crab shall not exceed 4 degrees in any flight line.
- c. Tilt within a single negative shall not exceed 4 degrees nor shall the difference in tilt between the two consecutive negatives within the flight line exceed 4 degrees.

American Chemical Service, Inc. Site
Invitation for Bids For Aerial
Photography and Mapping Services

Page No: 5

- d. Altitude, that is the departure from the required altitude above mean ground to achieve the specified scale of the photograph, shall not exceed five (5%) percent.

B. SPECIFIC SERVICES

1. COLOR PHOTOGRAPHY AND TOPOGRAPHIC MAPPING

Services required as part of this project include producing a color aerial photograph as specified in paragraph d. and mapping as specified in paragraphs a., b. and c. below. A set of stereo film positives has already been produced for the site and will be available to the subcontractor for use in the preparation of the topographic mapping. However, it will be necessary to provide the ground control for the existing aerial photography as specified in Section 2 - Ground Control Survey. A firm experienced in this type of work will be required to provide the following deliverable products.

- a. One reproducible (mylar) map with photo background of the area designated on Attachments B&C (solid boundary line). This map of the area bounded by the solid line shall have a scale of one inch equals fifty feet (1 inch = 50 feet). It shall also have one (1) foot contour intervals in the shaded area. In addition to contours and other standard 50 scale map details, the finished map (solid boundary line) shall show and label street and highway names, railroad names, all above grade structures, paved areas, wetlands, water features and drainage patterns. In addition, the following information shall be determined, shown and labeled, (owner, etc.) on the map: (1) property boundary lines, (2) easements, (3) rights-of-way, and (4) above-ground and buried utilities. The items to be shown and/or labeled include, but are not necessarily limited to, the items shown in the example map legend given below.
 - b. One reproducible (mylar) map of the area designated on Attachments B&C (solid boundary line) identical in every way to that required under letter a. above with the exception that it shall not have the photo background.
 - c. One non-reproducible topographic map of the area designated on Attachment B&C (solid boundary line) identical in every way to that required under letter a. above with the exception that it shall be printed on heavy quality photographic paper.
- Deliverables a, b, and c listed above shall be produced from the existing stereo film positives.
- d. One non-reproducible color print of the area designated on Attachments B&C (solid boundary line). This color print shall have a scale of one inch equals fifty feet (1 inch = 50 feet) and shall be enlarged no more than five times (5x) from the

American Chemical Service, Inc. Site
Invitation for Bids For Aerial
Photography and Mapping Services

Page No: 6

LEGEND

	PAVED ROAD		SWAMP OR MARSH
	UNPAVED ROAD, DRIVEWAY		CULVERT
	TRAIL		HEADWALL
	SHOULDER		TREE
	RAILROAD		WOODLAND
	BRIDGE		HORIZONTAL CONTROL POINT
	BUILDING		VERTICAL CONTROL POINT
	FENCE		PASS POINT
	GUARDRAIL		PLOTTER ELEVATION
	POLE		INDEX CONTOUR
	SIGN		INTERMEDIATE CONTOUR
	LOCATED OBJECT		SUPPLEMENTARY CONTOUR
	FIRE HYDRANT		APPROXIMATE CONTOURS
	WATER		PHOTO CENTER
			TOWER

2. GROUND CONTROL SURVEY

- a. Horizontal Control - Sufficient horizontal control will be established to meet the needs of the stereo-photogrammetric mapping in the form of closed electronic traverses that will conform to second-order (Class II standards as classified by the National Ocean Survey (N.O.S.) and National Oceanic and Atmospheric Administration (N.O.A.A.)). Each model shall have as a minimum two (2) horizontal distances for photo control.
- b. Vertical Control - Sufficient second order vertical control (differential leveling) will be established to meet the photogrammetric requirements. The vertical datum shall be mean sea level 1929 general adjustment as established by the N.O.S. & N.O.A.A. United States Geological Survey datum shall be used for vertical control. Each model shall have as a minimum four (4) vertical control points for photo control. A temporary benchmark (spike in telephone pole, etc.) shall be left at each vertical control point. The temporary benchmark shall be marked in such a way as to allow relocating it. The temporary benchmark shall be suitable for use in obtaining elevations of other points as required. A written description of the temporary benchmark locations along with their corresponding elevation shall be provided.
- c. Proposed location of horizontal and vertical control points shall be submitted to the Site Manager for review and comments.

American Chemical Service, Inc. Site
Invitation for Bids For Aerial
Photography and Mapping Services

Page No: 7

3. BENCHMARK SURVEY

A permanent (concrete with brass cap) benchmark (taken from the nearest U.S.G.S. benchmark) shall be established near to, but outside of the American Chemical Service, Inc. site and shall be located within the public right-of-way of Colfax Avenue.

Location shall be coordinated with site manager prior to setting the benchmark. This benchmark shall be located and labeled on items B.1.a, B.1.b. and B.1.c given above. A written description of the benchmark location in sufficient detail to locate the benchmark shall also be provide. United States Geological Survey latitude and longitude, and elevation shall be permanently stamped on the brass cap.

C. PERIOD OF PERFORMANCE

It is understood that time is of the essence in the completion of the Aerial Photography and Mapping. All work detailed herein shall therefore be completed and final products shall be delivered to the Contractor within a period of 30 calendar days from date of notice to proceed. The designated time shall be adjusted for weather delays or other circumstances not directly under the Subcontractor's control.

D. HEALTH AND SAFETY PROTOCOL

1. GENERAL

The American Chemical Service, Inc. site is an actively used chemical manufacturing and reclamation facility. Chemical waste disposal has taken place at the site and it is listed as a hazardous waste disposal site on the U.S. EPA National Priority List. Attachment E - Site Personnel Protection and Safety Evaluation Form identifies the materials which are known to be buried at various locations on the site and has been provided for the subcontractors information. The attached Site Personnel Protection and Safety Evaluation Form was prepared for Weston's remedial investigation site activities and is applicable for on site aerial photography ground control survey work. A condition of on-site work covered by this Site Personnel Protection and Safety Evaluation Form is that no excavation of any kind will be conducted. Additional information concerning the site can be obtained from James M. Burton or Edward A. Need at Roy F. Weston, Inc., 100 Corporate North, Suite 101, Bannockburn, Illinois 60015 (312) 295-6020.

American Chemical Service, Inc. Site
Invitation for Bids For Aerial
Photography and Mapping Services

Page No: 8

If it is necessary that aerial photography ground control survey work be conducted on the American Chemical Services, Inc. site (Attachment C - Dashed Boundary Line) the requirements of the following sections must be complied with.

2. SUBCONTRACTOR'S RESPONSIBILITY

- a. The Subcontractor and his work party shall comply with the agreements as established in this Health and Safety Protocol and as further defined in the attached Site Personnel Protection & Safety Evaluation Form. ~~(Attachment E)~~.
- b. The Subcontractor shall provide in his bid the time and travel expenses for his work party to attend a one half day health and safety briefing at the office of the Contractor (Bannockburn, IL).
- c. Evidence of a program of medical surveillance for the Subcontractor's work party is required. Separate statements from an examining physician for each individual are required. Separate statements from an examining physician for each individual, shall be forwarded to the Contractor prior to attendance at the health and safety briefing. Such statement will certify that the individual has the physical ability to perform his/her work assignment using respiratory protective devices.
- d. The Subcontractor is responsible for providing for his work party all disposable items of wear and any respiratory equipment.

Note that the items to be furnished by the Subcontractor for his work crew under different levels of protection are as described below:

o Level D

- hard hats
- rubber gloves (butyl, nitrile or neoprene) optional
- rubber boots (butyl, nitrile or neoprene) optional
- coveralls
- chemical resistant coveralls (i.e., Saranex) optional
- disposable outer boots (i.e., PVC or equal)

o Level C - Protective clothing and equipment

- full face, air purifying cannister equipped respirator
- chemical resistant coveralls (i.e., Saranex)
- disposable outer boots (i.e., PVC or equal)
- hard hats

American Chemical Service, Inc. Site
Invitation for Bids For Aerial
Photography and Mapping Services

Page No: 9

- rubber gloves (butyl, nitrile or neoprene) optional
- rubber boots (butyl, nitrile or neoprene) optional
- coveralls

It is anticipated that to complete the Work described herein, Level D protection will be adequate. The Subcontractor should be prepared, however, to upgrade to Level C should it be deemed necessary in the field.

3. CONTRACTOR'S RESPONSIBILITY

- a. The Contractor will be responsible for conducting a one half day health and safety briefing. The Contractor's Health and Safety Officer, or duly authorized representative, shall be in charge of this session which will also be attended by the Contractor's site team. During the health and safety briefing, the attached Site Personnel Protection and Safety Evaluation Form (Attachment E) will be reviewed, the Contractor's and Subcontractor's responsibilities will be defined, and answers will be provided for any questions that the Subcontractor, his work party, or the Contractor's site team may have in connection with health and safety related interests.

4. AMBIENT AIR MONITORING

- a. Surveillance for volatile organics will be performed by the Contractor during the performance of Subcontractor's work. Photoionization detectors and/or organic vapor analyzers will be used for this purpose. Specific use of such instruments to monitor worker exposures will be reviewed at the Health and Safety briefing.

5. HEALTH AND SAFETY OFFICER

- a. It shall be the responsibility of the Contractor's Health and Safety Officer or duly authorized representative to ensure that all health and safety requirements are implemented. The officer will have control over the execution of the contract while in progress. Should for any reason it be determined that the working conditions are unsafe, the Officer at his/her discretion can terminate the work. The Officer is charged with overseeing site health and safety, instrument monitoring, personnel decontamination, control of contaminated material and emergency response measures.

American Chemical Service, Inc. Site
Invitation for Bids For Aerial
Photography and Mapping Services

Page No: 10

6. SITE PERSONNEL PROTECTION AND SAFETY EVALUATION FORM

- a. Both the Contractor's site personnel and the Subcontractor's work party will be required to conform to all requirements of the Site Personnel Protection & Safety Evaluation Form. This Site Personnel Protection & Safety Evaluation Form, was prepared to address specific site conditions either known or suspected to exist and will be discussed in detail at the health and safety briefing to be conducted by the Contractor. All work party members supporting the field work and the Contractor's personnel and any other persons entering the site will be required to follow this Site Personnel Protection & Safety Evaluation Form. Any deviations or modifications to contents of the Site Personnel Protection & Safety Evaluation Form must be approved by the Health and Safety Officer prior to field implementation.

ATTACHMENT A

BID SHEET FOR

AMERICAN CHEMICAL SERVICE, INC. SITE

SOLICITATION NO. IFB-AS-160-01

EPA Work Assignment No. 61-5LJ7.0

EPA Contract No. 68-01-6939

SUBCONTRACTOR SERVICES

FOR

AERIAL PHOTOGRAPHY AND MAPPING SERVICES

The undersigned declares that the only persons or parties interested in this Bid as principals are as stated; that the Bid is made without any collusion with other persons, firms, or corporations; that this Invitation For Bids (IFB) has been carefully examined; that the bidder is informed fully in regard to all conditions pertaining to the work and the place where it is to be done, and from them, the undersigned makes this Bid. The price bid shall cover all expenses incurred in performing the work required under the contract including, but not limited to costs of the following:

- o Compliance with all health and safety requirements
- o All labor, equipment and materials required
- o Required bonds
- o Per Diem and all other services and items required to satisfactorily complete the project.

All bids shall remain open for 60 days, excluding Saturdays, Sundays, and legal holidays, after the actual date the Bids are due.

If a Notice of Award, accompanied by at least three unsigned copies of the Contract and all other applicable Contract Documents, is delivered to the undersigned within 60 days, excluding Saturdays, Sundays, and legal holidays, after the actual date the Bids are due, the undersigned will within five days, excluding Saturdays, Sundays, and legal holidays, after the the date of receipt of such notification, execute and return all copies of the Contract and all other applicable Contract Documents. The premiums for all Bonds required shall be paid by the Subcontractor and shall be included in the Contract Price.

Company Name _____ Date _____ Page 2 of 3

The undersigned hereby agrees that the Contract Time shall commence upon the effective date of the Contract and that the work will be completed within the established schedule noted in the Statement of Work Specifications.

The undersigned acknowledges receipt of the following addenda:

In accordance with the above understanding, the undersigned proposes to perform the Work, furnish all materials, and complete the Work in its entirety in the manner and under the conditions required at the prices listed on the remaining pages of this Bid Sheet.

Give name, address and phone number of at least five references with whom you have conducted similar recent work:

1.

2.

3.

4.

5.

Company Name _____ Date _____ Page 3 of 3

Bid Price for
Completion of Work

I hereby certify that the work described in this IFB will be completed
by _____ for the firm price of \$ _____
(Company Name) (Numerical)

(_____). I further certify

that these prices are good for 60 days from the date shown below. I
also certify that _____ falls into the
(Company Name)

following categories (check applicable lines):

- _____ Small Business
- _____ Disadvantaged Business
- _____ Women Owned Business
- _____ Located in a Designated Labor Surplus Area
- _____ None of the above

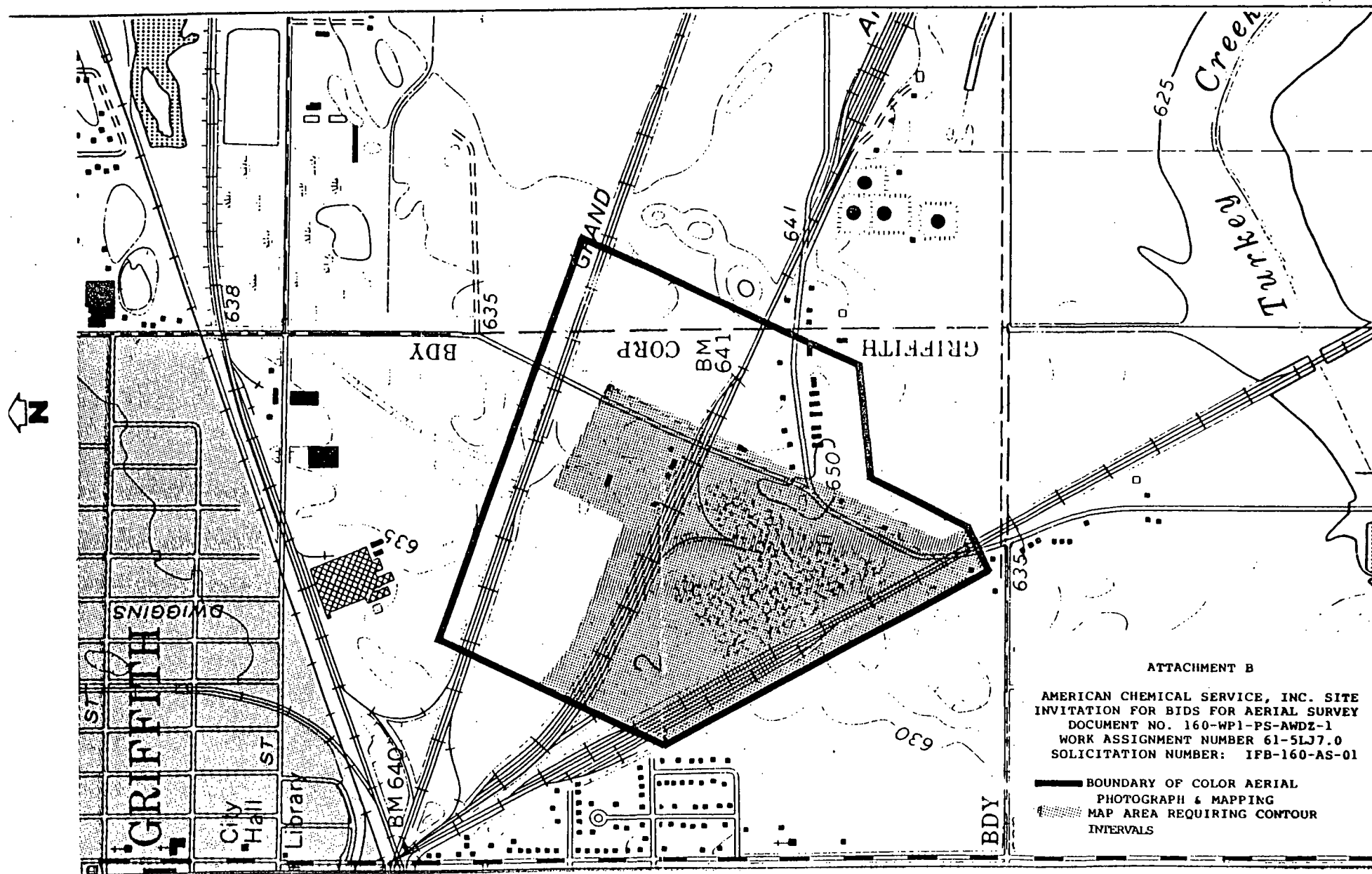
Note: If the Bidder is a corporation, indicate State of incorporation
under signature, and affix corporate seal; if a partnership, give full
names and residential addresses of partners, if different from
business address.

Address and telephone number of company to which notification of award
should be sent:

Address: _____

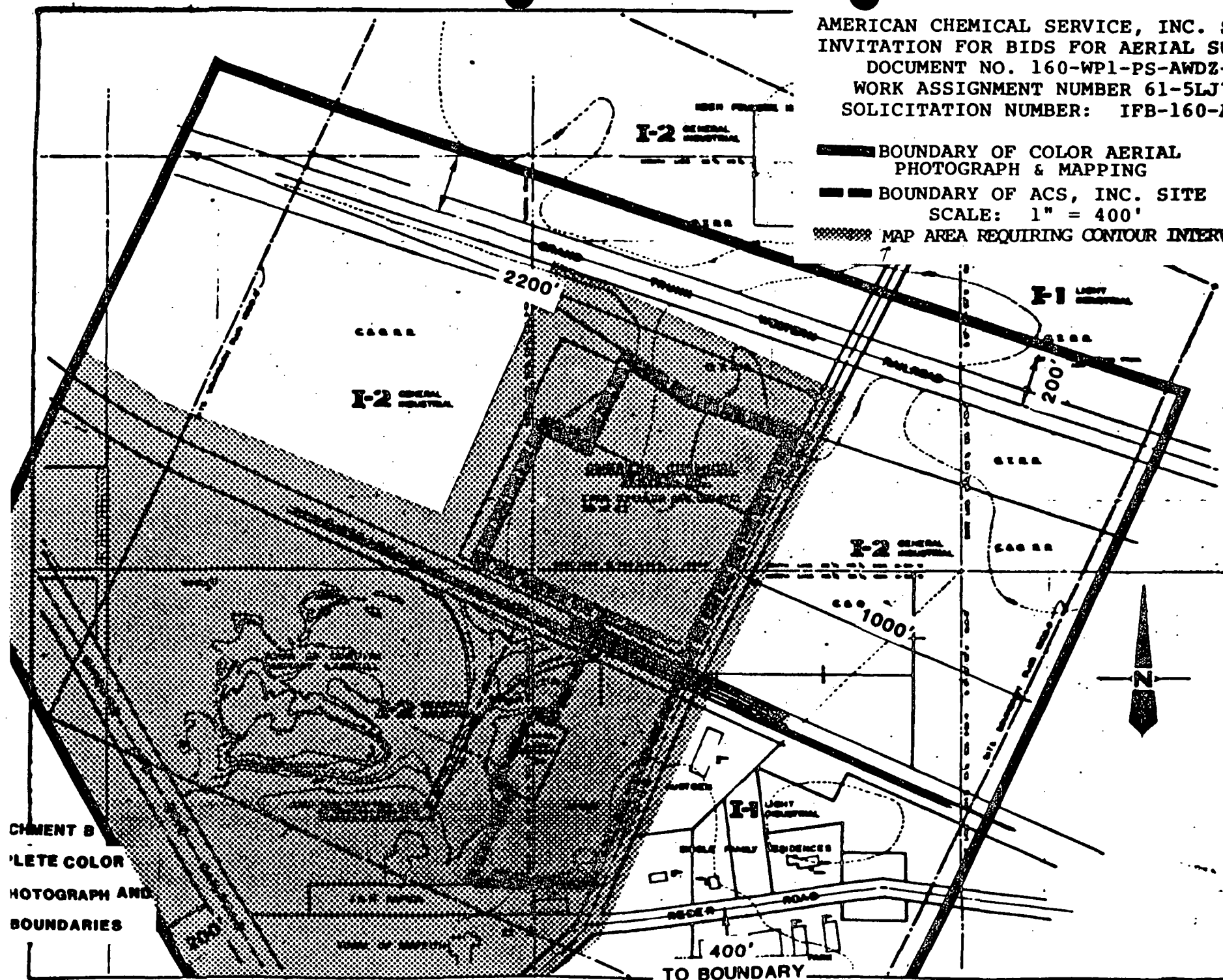
Telephone: (____) _____

Note: Completed bid sheet must be received by _____, 1985.



AMERICAN CHEMICAL SERVICE, INC. SITE
 INVITATION FOR BIDS FOR AERIAL SURVEY
 DOCUMENT NO. 160-WP1-PS-AWDZ-1
 WORK ASSIGNMENT NUMBER 61-5LJ7.0
 SOLICITATION NUMBER: IFB-160-AS-01

BOUNDARY OF COLOR AERIAL
 PHOTOGRAPH & MAPPING
 BOUNDARY OF ACS, INC. SITE
 SCALE: 1" = 400'
 MAP AREA REQUIRING CONTOUR INTERVALS



CHMENT B
 'LETE COLOR
 MOTOGRAPH AND
 BOUNDARIES

EPA WA NO. 61-5LJ7.0

REM II DOC. NO. 160-WP1-CP-AUT-2

SITE: American Chemical Service (ACS)

EPA REGION: V

LOCATION: 420 S. Colfax Avenue, Griffith, IN

EVALUATOR: P. Krishnan

SITE DESCRIPTION: The site is primarily a solvent reclamation facility. The still bottoms were stored in lagoon and later disposed in the landfill area until incinerators were installed in 1968. Incinerators were used to burn liquid and sludge wastes until it was closed in 1978. The lagoon area was converted to a fire pond in 1973. The landfill is approximately 6 acres in area and bordered on the southeast by a drum reclamation facility and on the western side by the Griffith City landfill. The landfill was utilized for waste disposal between 1958 and 1975. It was closed in 1975 and covered with 2' of sand and reinforced by a land berm. The landfill is located in a marsh area and known to contain 20 to 30,000 drums of unknown material and a tank truck partially filled with sludge. The drums

(CONTINUED ON NEXT PAGE)

SITE MAPS ATTACHED: ☐ _____

BACKGROUND ENVIRONMENT.

AIR. No monitoring has been undertaken at the site.

SURFACE WATER. Drainage from the site is to a swamp located southwest of the site and then to the Turkey Creek south of the site. Sampling of Turkey Creek has not been done.

SOIL. EPA Surveillance and Analysis Div. collected 2 soil samples around the ACS disposal area on May 9, 1980 and found contamination with the following priority pollutants: phenol, isophorone, naphthalene, fluorene, phenanthrene, anthracene, bis (2 chloroethyl) ether and phthalates. A water sample taken from the leachate pool also showed the presence of above mentioned priority pollutants.

GROUNDWATER. EPA FIT Team (Ecology and Environment) installed monitoring wells around the landfill disposal area and sampled these wells in Sept. 1982. The well water contained the following priority pollutants: 2,4-dimethyl phenol, pentachlorophenol, bis (2 chloro ethyl) ether, bis (2-ethylhexyl) phthalate, naphthalene, benzene, ethylbenzene, toluene, vinyl chloride, methylene chloride, chloroethane, 1,1,1-trichloroethane, and 1,2-trans dichloroethylene

INFORMATIONAL SOURCES USED Tech Law Report, EPA and FIT team sampling at the site, Weston Technical Assistance Team (TAT) safety plan and ACS site assessment (12/84), American Chemical Service Initial Site Evaluation

SITE DESCRIPTION (continued)

portedly were either empty or partially full of unreclaimable wastes. Landfill was also used for disposal of till bottoms and incinerator ash. The site has processing operations for epoxidation of linseed oil, gasoline additives and compounding solder fluxes. The site had an animal fat reprocessing operation which was closed in April, 1973. Process wastewater and overflow from the fire pond are discharged to the City Sewer. The site is currently on the National priority list.

(IDLH and route of exposure taken from NIOSH/OSHA pocket guide to chemical hazards U.S. Dept. of Labor, Occupational Safety and Health Administration, Sept. 1978)						INSTRUMENT RESPONSE FACTORS		
CONTAMINANTS OF CONCERN	GUIDELINE SHEET ATTACHED	I.D.L.H. (PPM)	SOURCE/QUANTITY CHARACTERISTICS	ROUTE OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE	PID ¹	FID ²	OTHER
<u>Soil Sample and Leachate Pool</u> (Based on EPA Sampling on 5/9/80)								
Phenol		100	13-1400 ppb	Inh, Abs, Inq, con		8.50		
Isophorone		800	6.2-700 ppb	Inh, Ing, Con		NA		
Napthalene		500	21-12,000 ppb	Inh, Abs, Ing, Con		8.12		
Fluorene		NA	6-1000 ppb	NA		NA		
Phenanthrene and Anthracene		NA	26-1400 ppb	NA		NA		
Bis(2-chloroethyl) ether		250	5-400 ppb	Inh, Abs		NA		
Di-n-butylphthalate		9300 mg/m ³	11-1100 ppb	Inh, Ing, Con		NA		
Bis (2-ethylhexyl) phthalate		NA	71-110,000 ppb	Inh, Ing, Con		NA		
Butylbenzyl Phthalate		NA	117-8300 ppb	NA		NA		
Dimethyl Phthalate		9300 mg/m ³	5-2300 ppb	Ing, Inh, Con		NA		
Diethylphthalate		NA	240-7400 ppb	NA		NA		
<u>Groundwater Monitoring Wells</u> (Based on EPA FIT Sampling on Sept., 1982)								
2,4 dimethyl Phenol		NA	33 ppb	NA		NA		
Pentachloro phenol		150 mg/m ³	36 ppb	Inh, Abs, Ing, Con		NA		
Bis (2 chloroethyl) Ether		250	327-487 ppb	Inh, Abs		NA		
Napthalene		10	1000	Inh, Abs, Ing, Con		8.12		

2. ~~SAB~~ CH₄

SITE PERSONNEL/EQUIPMENT
SITE ACTIVITY
1
SURFACE WATER SAMPLING AND SEDIMENT SAMPLING
PERSONNEL

<u>NAME</u>	<u>S.S. NO.</u>	<u>FIRM</u>	<u>REGION</u>	<u>LEVEL OF PROTECTION</u>	<u>CONTINGENCY</u>	<u>VERIFY</u>
Martin S. Mathamel	379 52 4800	RFW	V	C	B	()
James Burton	494 58 7154	RFW	V	C	B	()
Edward Need	018 48 1445	RFW	V	C	B	()
Mark A. Hutson	357 50 3569	RFW	V	C	B	()
P. Krishnan	441 46 8199	RFW	V	C	B	()
Gary J. Deigan	320 58 9161	RFW	V	C	B	()
Daniel Malinowski	359 60 6198	RFW	V	C	B	()
						()

PERSONNEL PROTECTIVE EQUIPMENT
VERIFY
FIELD MONITORING EQUIPMENT
VERIFY

Steel toed/shanked work boots	()	HNu.	()
Industrial Coverall (Acid Resistant)	()	OVA	()
Hard Hat	()	Radiological Survey Meter	()
Eye Protection (Monogoggles)	()		()
Tyvek Coverall	()		()
Inner Glove (Latex)	()		()
Outer Glove (PVC)	()		()
Over Boots (9" Butyl)	()		()
Ultra-twin Full-face Respirator With GMC-H Cartridge			

DECON: Disposal of over boots and tyvek. Detergent wash and potable water rinse of non-disposable items.

SITE PERSONNEL PROTECTION & SAFETY EVALUATION FORM

PAGE 7 OF 15

REM II DOC. NO. 160-WP1-08-AUPT-2

SITE PERSONNEL/EQUIPMENT

SITE ACTIVITY

2

PRIVATE WELL SAMPLING

PERSONNEL

[illegible]

PERSONNEL PROTECTIVE EQUIPMENT

VERIFY

FIELD MONITORING EQUIPMENT

VERIFY

[illegible]

ITE PERSONNEL PROTECTION & SAFETY EVALUATION FORM

PAGE 8 OF 15

REM II DOC. NO. 160-WP1-OP APT

ITE PERSONNEL/EQUIPMENT SITE ACTIVITY 3 SOIL AREA SAMPLING

PERSONNEL

NAME	S.S. NO.			FIRM	REGION	LEVEL OF PROTECTION	CONTINGENCY	VERIFY
Martin S. Mathamel	379	52	4800	RFW	V	C	B	()
James Burton	494	58	7154	RFW	V	C	B	()
Edward Need	018	48	1445	RFW	V	C	B	()
Mark A. Hutson	357	50	3569	RFW	V	C	B	()
P. Krishnan	441	46	8199	RFW	V	C	B	()
Gary J. Deigan	320	58	9161	RFW	V	C	B	()
Daniel Malinowski	359	60	6198	RFW	V	C	B	()
								()

PERSONNEL PROTECTIVE EQUIPMENT

VERIFY

Steel toed/shanked work boots	()
Industrial Coverall (Acid Resistant)	()
Hard Hat	()
Eye Protection (Monogoggles)	()
Synthetic Coverall	()
Inner Glove (Latex)	()
Outer Glove (PVC)	()
Over Boots (9" Butyl)	()
Ultra-twin Full-face Respirator With GMC-H Cartridge	()

FIELD MONITORING EQUIPMENT

VERIFY

HNu	()
OVA	()
Radiological Survey Meter	()
	()
	()
	()
	()

SITE PERSONNEL/EQUIPMENT

SITE ACTIVITY

4

SOIL BORING SAMPLING

PERSONNEL

NAME	S.B. NO.			FIRM	REGION	LEVEL OF PROTECTION	CONTINGENCY	VERIFY
Martin S. Mathamel	379	52	4800	RFW	V	C	B	()
James Burton	494	58	7154	RFW	V	C	B	()
Edward Need	018	48	1445	RFW	V	C	B	()
Mark A. Hutson	357	50	3569	RFW	V	C	B	()
P. Krishnan	441	46	8199	RFW	V	C	B	()
Gary J. Deigan	320	58	9161	RFW	V	C	B	()
Daniel Malinowski	359	60	6198	RFW	V	C	B	()
								()

PERSONNEL PROTECTIVE EQUIPMENT

VERIFY

Steel toed/shanked work boots	()
Coverall, Hard Hat, Eye Protection	()
Tyvek Coverall	()
Inner Glove (Latex)	()
Outer Glove (PVC)	()
Over Boots (9" Butyl)	()
Ultra-twin Full-face Respirator With GMC-H Cartridge	()
Emergency Escape Masks (ELSA or Equivalent)	()

FIELD MONITORING EQUIPMENT

VERIFY

HNu	()
OVA	()
Radiological Survey Meter	()
OGI/O ₂ Meter	()
	()
	()
	()
	()

ECON: Disposal of over boots and tyvek. Detergent wash and potable water rinse of non-disposable items.

SITE PERSONNEL/EQUIPMENT

SITE ACTIVITY

5

WASTE BORINGS SAMPLING

PERSONNEL

NAME	S.S. NO.			FIRM	REGION	LEVEL OF PROTECTION	CONTINGENCY	VERIFY
Martin S. Mathamel	379	52	4800	RFW	V	C	B	()
James Burton	494	58	7154	RFW	V	C	B	()
Edward Need	018	48	1445	RFW	V	C	B	()
Mark A. Hutson	357	50	3569	RFW	V	C	B	()
P. Krishnan	441	46	8199	RFW	V	C	B	()
Gary J. Deigan	320	58	9161	RFW	V	C	B	()
Daniel Malinowski	359	60	6198	RFW	V	C	B	()
								()

PERSONNEL PROTECTIVE EQUIPMENT

VERIFY

Steel toed/shanked work boots	()
Coverall, Hard Hat, Eye Protection	()
Tyvek Coverall	()
Inner Glove (Latex)	()
Outer Glove (PVC)	()
Over Boots (9" Butyl)	()
Ultra-twin Full-face Respirator With GMC-H Cartridge	()
Emergency Escape Masks (ELSA or Equivalent)	()

FIELD MONITORING EQUIPMENT

VERIFY

HNu	()
OVA	()
Radiological Survey Meter	()
OGI/O ₂ Meter	()
	()
	()
	()
	()

DECON: Disposal of over boots and tyvek. Detergent wash and potable water rinse of non-disposable items.

SITE PERSONNEL/EQUIPMENT
SITE ACTIVITY
6
WASTE PIT SAMPLING
PERSONNEL

<u>NAME</u>	<u>S.S. NO.</u>			<u>FIRM</u>	<u>REGION</u>	<u>LEVEL OF PROTECTION</u>	<u>CONTINGENCY</u>	<u>VERIFY</u>
Martin S. Mathamel	379	52	4800	RFW	V	C	B	()
James Burton	494	58	7154	RFW	V	C	B	()
Edward Need	018	48	1445	RFW	V	C	B	()
Mark A. Hutson	357	50	3569	RFW	V	C	B	()
P. Krishnan	441	46	8199	RFW	V	C	B	()
Gary J. Deigan	320	58	9161	RFW	V	C	B	()
Daniel Malinowski	359	60	6198	RFW	V	C	B	()
BACK HOE OPERATOR					V	B		()
SAMPLER					V	B		

PERSONNEL PROTECTIVE EQUIPMENT
VERIFY

Steel toed/shanked work boots	()
Coverall, Hard Hat, Eye Protection	()
Tyvek Coverall	()
Inner Glove (Latex)	()
Outer Glove (PVC)	()
Over Boots (9" Butyl)	()
Ultra-twin Full-face Respirator With GMC-H Cartridge)	()
Emergency Escape Masks (ELSA or Equivalent)	()

FIELD MONITORING EQUIPMENT
VERIFY

HNu	()
OVA	()
Radiological Survey Meter	()
OGI/O ₂ Meter	()
	()
	()
	()
	()

DECON: Disposal of over boots and tyvek. Detergent wash and potable water rinse of non-disposable items.

SITE PERSONNEL/EQUIPMENT

SITE ACTIVITY 7

MONITORING WELL INSTALLATIONS

PERSONNEL

NAME	S.B. NO.			FIRM	REGION	LEVEL OF PROTECTION	CONTINGENCY	VERIFY
Martin S. Mathamel	379	52	4800	RFW	V	C	B	()
James Burton	494	58	7154	RFW	V	C	B	()
Edward Need	018	48	1445	RFW	V	C	B	()
Mark A. Hutson	357	50	3569	RFW	V	C	B	()
P. Krishnan	441	46	8199	RFW	V	C	B	()
Gary J. Deigan	320	58	9161	RFW	V	C	B	()
Daniel Malinowski	359	60	6198	RFW	V	C	B	()
								()

PERSONNEL PROTECTIVE EQUIPMENT

VERIFY

Steel toed/shanked work boots	()
Coverall, Hard Hat, Eye Protection	()
Tyvek Coverall	()
Inner Glove (Latex)	()
Outer Glove (PVC)	()
Over Boots (9" Butyl)	()
Ultra-twin Full-face Respirator With GMC-H Cartridge	()
Emergency Escape Masks (ELSA or Equivalent)	()

FIELD MONITORING EQUIPMENT

VERIFY

HNu	()
OVA	()
Radiological Survey Meter	()
CGI/O ₂ Meter	()
	()
	()
	()
	()

CON: Disposal of over boots and tyvek. Detergent wash and potable water rinse of non-disposable items.

SITE PERSONNEL/EQUIPMENT

SITE ACTIVITY 8

GROUNDWATER SAMPLING

PERSONNEL

NAME	S.S. NO.			FIRM	REGION	LEVEL OF PROTECTION	CONTINGENCY	VERIFY
Martin S. Mathamel	379	52	4800	RFW	V	C	B	()
James Burton	494	58	7154	RFW	V	C	B	()
Edward Need	018	48	1445	RFW	V	C	B	()
Mark A. Hutson	357	50	3569	RFW	V	C	B	()
P. Krishnan	441	46	8199	RFW	V	C	B	()
Gary J. Deigan	320	58	9161	RFW	V	C	B	()
Daniel Malinowski	359	60	6198	RFW	V	C	B	()
								()

PERSONNEL PROTECTIVE EQUIPMENT

VERIFY

Steel toed/shanked work boots	()
Coverall, Hard Hat, Eye Protection	()
Tyvek Coverall	()
Inner Glove (Latex)	()
Outer Glove (PVC)	()
Over Boots (9" Butyl)	()
Ultra-twin Full-face Respirator With GMC-H Cartridge	()
	()

FIELD MONITORING EQUIPMENT

VERIFY

HNu	()
OVA	()
Radiological Survey Meter	()
CGI/O ₂ Meter	()
	()
	()
	()

CON: Disposal of over boots and tyvek. Detergent wash and potable water rinse of non-disposable items.

CONTINGENCY CONTACTS

• DENOTES REQUIRED INFORMATION

AGENCY	CONTACT	PHONE NO	AGENCY	CONTACT	PHONE NO
FIRE DEPARTMENT	NA	219/924-3151	STATE POLICE	NA	769-8459
POLICE DEPARTMENT	NA	219/924-3141	FAA	NA	938-8788
HEALTH DEPARTMENT	NA		CIVIL DEFENSE	Hammond	853-6393
POISON CONTROL CENTER	St. Margaret Hosp.	219/932-2300		Gary	981-1166
	Indiana Poison Ctr.	1-800-382-9097	• ON SITE COORDINATOR	Rodney Gaither	312/886-4735
STATE ENVIRONMENTAL AGENCY	Wallace Turner	317/243-5135			
PA REGIONAL OFFICE	Greg VanderLaan	312/886-5877			
PA ERT, ICOM	Skip Powers	317/633-0144			
STATE SPILL CONTRACTOR	Skip Powers	317/633-0144			

MEDICAL EMERGENCY

NAME OF HOSPITAL Munster Community Hospital ADDRESS 910 MacArthur, Munster, IN PHONE NO 219/836-1600

NAME OF CONTACT NA ADDRESS NA PHONE NO NA

MAP OR ROUTE TO HOSPITAL From site proceed north on Colfax Street and then proceed west on Main Street to Wicker Park Blvd. Proceed north on Wicker Park Blvd. to Ridge Road. Proceed west on Ridge Road to White Oak Ave. Proceed south on White Oak Ave. to MacArthur Blvd. Proceed west on Mac Arthur Blvd. to the hospital.

LEVEL TIME FROM SITE (MINUTES) Approx. 20 DISTANCE TO HOSPITAL (MILES) Approx. 8 NAME OF 24 HR AMBULANCE SERVICE Fagen-Miller Ambulance Service 924-6543

REM II DOC. NO.

SEF REVIEW

I have read, understood, and agreed with the information set forth in this Personnel Protection and Safety Evaluation Form (and attachments) and discussed in Presite Visit Health and Safety briefing.

S.H.S.C. SIGNATURE

DATE

R.H.S.S. SIGNATURE

DATE

COMMENTS:

COMMENTS:

SITE PERSONNEL

SITE H & S BRIEFING

CONDUCTED AT

BY

ON

BRIEFING TOPICS:

H.S.M. APPROVAL

DATE

REM II H & S INPUT BY

DATE